Write up:

Will your project be able to pass a set of private test cases?

I've extensively tested my project using both the provided GUI tools and specific JUnit tests (BasicDoubleLinkedList_Test and SortedDoubleLinkedList_Test). These tests cover a wide range of scenarios, including edge cases and typical operations, ensuring that both BasicDoubleLinkedList and SortedDoubleLinkedList classes perform as expected. Based on this thorough validation and adherence to project specifications, I'm confident that my implementation meets the criteria set by any private test cases that might be used.

Highlight your learning experience and lessons learned

This project taught me a lot about building data structures in Java. I focused on doubly-linked lists and learned how to use iterators for moving through lists and handling exceptions properly. Creating a sorted version of the list also taught me how to use comparators effectively to keep data in order. Overall, I've improved my skills in Java programming and designing organized projects.

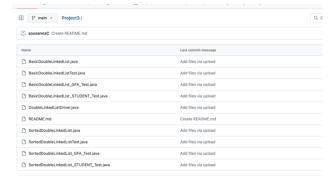
Assumptions that you made

I assumed the provided GUI and tests represented typical situations like I have in the past. For iterators, I followed Java's rules closely, making sure unsupported operations like *remove()* throw the right exceptions. I also relied on the provided comparator to manage sorting in *SortedDoubleLinkedList*, ensuring elements are always in the correct order.

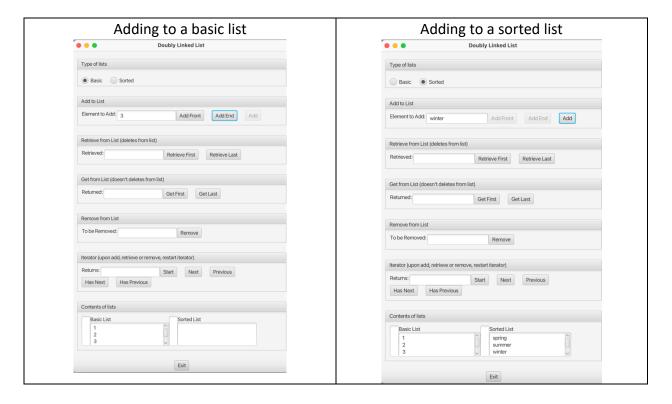
Anything else that I need to know?

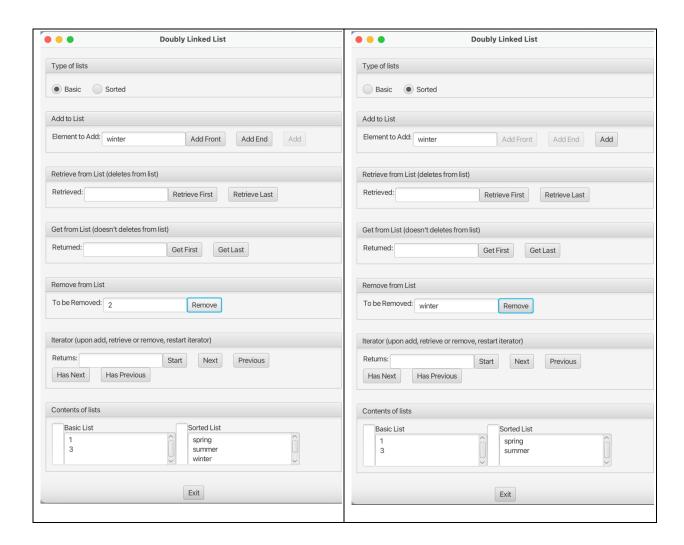
All project files, including initial ones from Blackboard, are on my GitHub with clear directories.

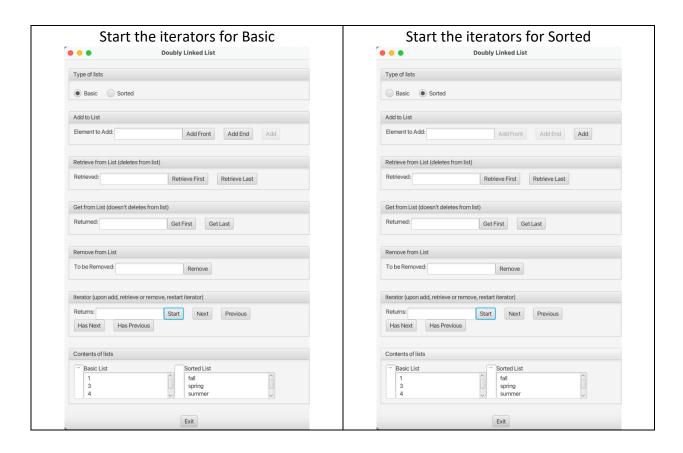
GitHub Screenshot:

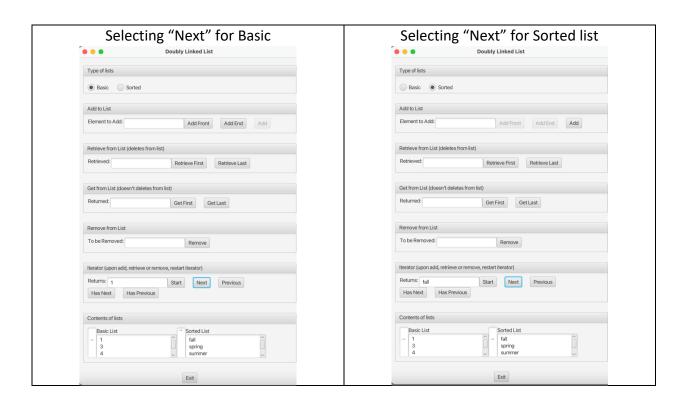


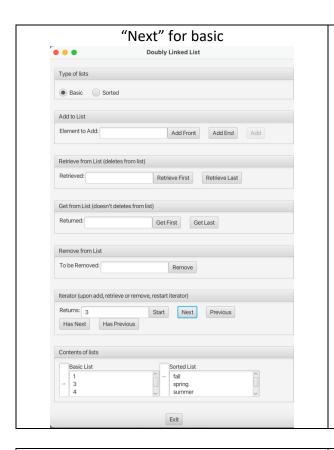
Expected vs Actual Output:

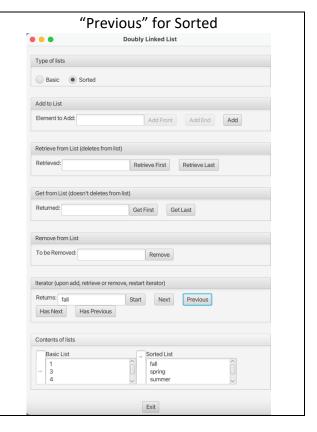




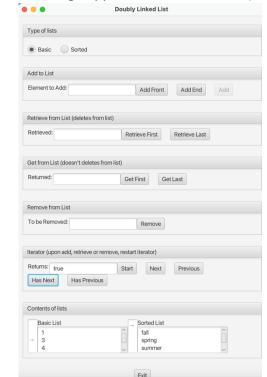






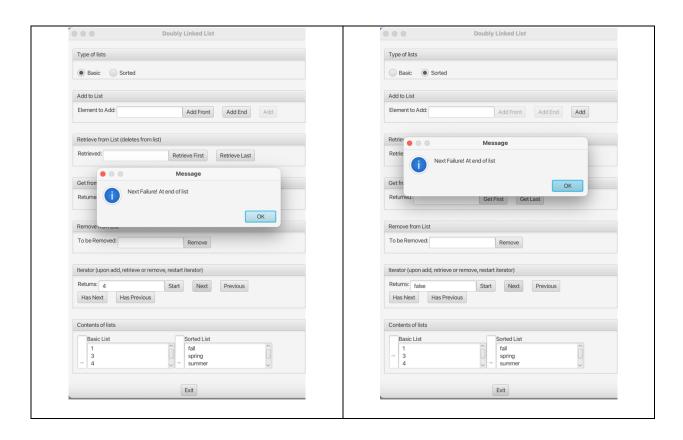


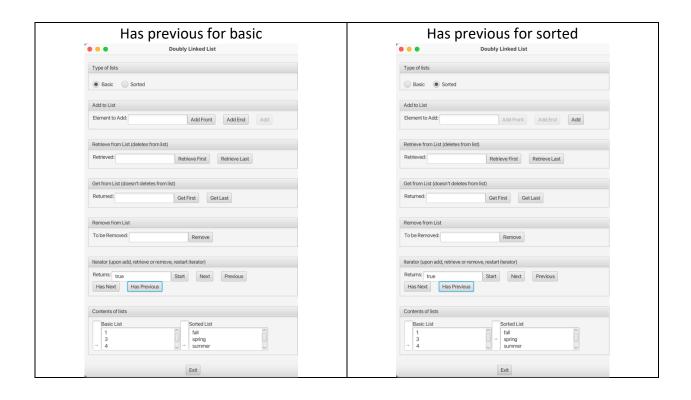
Has next for basic (expected true and error message appears when at the end)



Has Next for sorted (expected false and error message appears)

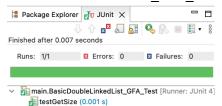
•	Doubly Linked Lis	T.
Type of lists		
Basic Sorted		
Add to List		
Element to Add:	Add Front	Add End Add
Retrieve from List (deletes	from list)	
Retrieved:	Retrieve First	Retrieve Last
Returned:	Get First G	et Last
To be Removed:	Remove	
Iterator (upon add, retrieve	or remove, restart iterator)	
Returns: false Has Next Has Prev	Start Next lious	Previous
Contents of lists		
Basic List 1 3 4	Sorted List fall spring summer	Ô



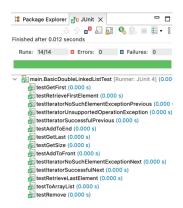


JUNIT Test Cases ran:

BasicDoubleLinkedList GFA Test:



BasicDoubleLinkedListTest:



SortedDoubleLinkedList GFA Test:



SortedDoubleLinkedListTest:

